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WATER PUMP DEVICE

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ABSTRACT

PROBLEM TO BE SOLVED: To provide a **bearing** sealing device for water pump capable of almost certainly preventing the cooling water, vapor, etc., from intruding into the **bearing** and also preventing the grease inside the **bearing** from flowing out.

SOLUTION: A **seal** ring on the impeller side is composed of a reinforcing ring, an outer ring side **seal** ring 151 furnished with a first aux. lip 1512 and a main lip 1513 made of a resilient substance such as rubber or synthetic resin and a second aux. lip 1514 positioned outside more than the main lip 1513, a first cylindrical part 1521 fitted fast on a **shaft**, an intermediate part 1522 extended to outside more than the first cylindrical part, and a **shaft** side **seal** ring 152 having a second cylindrical part 1523 extended continuously therefrom in the axial direction and rotating together with the **shaft**, wherein the main lip 1513 is put in slide contact with the peripheral surface of the first cylindrical part 1521 of the **shaft** side **seal** ring 152 while the first aux. lip 1512 makes slide contact with the peripheral surface of a rotary member located inside more than the main lip 1513 in the axial direction, and the second aux. lip 1514 makes slide contact with the **shaft** side **seal** ring 152 outside more than the main lip 1513, and the portion extending toward the periphery of the **shaft** side **seal** ring 152 constitutes a labyrinth **seal** in the area to the outer ring side **seal** ring 151 or the outer ring 101.

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